



**Belton T. Zeigler**  
*Partner*  
bzeigler@popezeigler.com  
MAIN 803 354.4900  
FAX 803 354.4899

Pope Zeigler, LLC  
1411 Gervais St., Ste 300  
Post Office Box 11509  
Columbia, SC 29211  
popezeigler.com

May 16, 2011

The Honorable Jocelyn Boyd  
Chief Clerk and Administrator  
Public Service Commission of South Carolina  
P. O. Drawer 11649  
Columbia, SC 29211

RECEIVED  
2011 MAY 16 PM 1:23  
PUBLIC SERVICE  
COMMISSION

Re: Quarterly Report of SCE&G Concerning Construction of V.C. Summer Nuclear Station  
Units 2 and 3

Dear Ms. Boyd:

Enclosed please find informational copies of South Carolina Electric & Gas Company's (the "Company" or "SCE&G") Quarterly Report (the "Report") for the period ending March 31, 2011, related to the construction of V.C. Summer Nuclear Station Units 2 and 3 (the "Units"). This Report is being filed with the South Carolina Office of Regulatory Staff ("ORS") pursuant to the Base Load Review Act, S.C. Code Ann. § 58-33-277 (Supp. 2010) and the provisions of Order No. 2009-104(A) of the Public Service Commission of South Carolina (the "Commission").

Because this Report contains certain commercially sensitive information, SCE&G is filing both redacted (Public) and unredacted (Confidential) versions of this Report with ORS. For your convenience, we are providing you with ten (10) copies of the Public version of this Report. SCE&G is also providing one (1) copy of the Confidential version of this Report and is hereby petitioning the Commission to enter a confidentiality order protecting the commercially sensitive information contained therein from disclosure, as set forth below.

The Confidential version of this Report contains confidential information related to the pricing and pricing terms of the Engineering, Procurement and Construction Agreement (the "EPC Contract") between SCE&G and a consortium consisting of Westinghouse Electric Company, LLC and the Shaw Group (collectively, the "Contractor"). The EPC Contract contains confidentiality provisions that require SCE&G to protect proprietary information that the Contractor believes to constitute trade secrets and to be commercially sensitive. The Contractor has requested that SCE&G maintain the confidentiality of certain information contained in **Appendix 2, Chart A and Appendix 3**. This confidential information has been redacted from the Public Version of these appendices.

In keeping with the Contractor's request and the terms of the EPC Contract, SCE&G respectfully requests that the Commission find that the Confidential version of the Report

contains protected information and issue a protective order barring the disclosure of Appendix 2, Chart A and Appendix 3 of the Report under the Freedom of Information Act, S.C. Code Ann. §§ 30-4-10 *et seq.*, 26 S.C. Code Ann. Regs. 103-804(S)(1), or any other provision of law, except in its public form. Pursuant to 26 S.C. Code Regs. 103-804(S)(2), the determination of whether a document may be exempt from disclosure is within the Commission's discretion. Such a ruling in this instance would be consistent with the Commission's prior rulings in Docket No. 2008-196-E and Docket No. 2009-211-E. In those dockets, the Commission found, among other things, that the pricing and pricing terms of the EPC Contract are confidential, and issued a protective order barring the disclosure of such information. *See* Commission Order Nos. 2008-467; 2008-696, as amended by Order No. 2008-739; 2009-888, and 2010-198 issued in Docket No. 2008-196-E; and Commission Order No. 2009-401 issued in Docket No. 2009-211-E.

To this end, and in accordance with Commission Order No. 2005-226, dated May 6, 2005, in Docket No. 2005-83-A, enclosed with this letter is as follows:

1. A true and correct copy of the Confidential version of the Report in a sealed envelope marked "CONFIDENTIAL." The title page of the Confidential version of the Report is marked "CONFIDENTIAL VERSION" and each confidential page of the Confidential version of the Report is marked "CONFIDENTIAL EXHIBIT."
2. Ten copies of a redacted Public version of the Report.

SCE&G respectfully requests, in the event that anyone should seek disclosure of the unredacted Confidential version of the Report, that the Commission notify SCE&G of such request and provide it and the Contractor with an opportunity to obtain an order from this Commission or a court of competent jurisdiction protecting the Confidential version of this document from disclosure.

If you have any questions regarding these matters, please advise.

Sincerely,



Belton T. Zeigler

cc: C. Dukes Scott  
John Flitter  
Shannon Bowyer Hudson, Esquire  
K. Chad Burgess, Esquire

**V. C. Summer Nuclear Station Units 2 & 3**

**Quarterly Report to the South Carolina Office of Regulatory Staff  
Submitted by South Carolina Electric & Gas Company  
Pursuant to Public Service Commission Order No. 2009-104(A)**

**Quarter Ending March 31, 2011**

**I. Introduction and Summary**

**A. Introduction**

This quarterly report is submitted by South Carolina Electric & Gas Company (SCE&G or the Company) to the Public Service Commission of South Carolina (the Commission) and the South Carolina Office of Regulatory Staff (ORS). It is submitted in satisfaction of the requirements of S.C. Code Ann. § 58-33-277 (Supp. 2010) and the terms of Commission Order No. 2009-104(A). This report provides updated information concerning the status of the construction of V. C. Summer Nuclear Station Units 2 & 3 (the Units) and updates the capital cost and construction schedules for the Units. The Commission approved updated construction schedules for the Units in Order No. 2010-12. The Commission approved updated capital cost schedules for the Units in Order No. 2011-345 issued in May of 2011.

Order No. 2011-345 was based on updated cost schedules that SCE&G filed with the Commission on November 15, 2010, and supplemented on March 8, 2011. Those updated schedules removed \$438,291,000 in owner's capital cost contingencies in response to the South Carolina Supreme Court opinion in South Carolina Energy Users Comm. v. South Carolina Pub. Serv. Comm'n, 388 S.C. 486, 697 S.E.2d 587 (2010) (the Opinion). The updated schedules also included approximately \$174 million in capital costs that the Company had identified and itemized to specific cost items for the project since Order No. 2009-104(A). They further reflected all changes in the timing of cash flow requirements since Order No. 2010-12 was adopted.

**B. Structure of Report and Appendices**

The current reporting period is the quarter ending March 31, 2011. The report is divided into the following sections:

Section I: Introduction and Summary;

Section II: Progress of Construction of the Units;



- Section III: Anticipated Construction Schedules;
- Section IV: Schedules of the Capital Costs Incurred Including Updates to the Information Required by S.C. Code Ann. § 58-33-270(B)(6) (the Inflation Indices);
- Section V: Updated Schedule of Anticipated Capital Costs; and
- Section VI: Conclusion.

**Appendices 1, 2, and 4** to this report contain detailed financial, milestone and other information updating the schedules approved by the Commission in Order No. 2010-12. For reference purposes, **Appendix 3** provides a copy of the approved capital cost schedule for the project without adjustments in the form approved in Order No. 2011-345.

A confidential and a public version of this report and its attachments are being provided. All cost information presented reflects only SCE&G's share of the project's cost. Attached to the end of the report is a glossary of acronyms and defined terms used in it.

#### **C. Construction Schedule and Milestones**

As the report indicates, the Company has met all current construction milestones approved by the Commission in Order No. 2010-12, as adjusted pursuant to contingencies authorized in Order No. 2009-104(A). There are 146 separate milestones. Of these, 59 have been completed as of March 31, 2011. Comparing the scheduled milestone completion dates as of the date of this report to the milestone completion dates approved by the Commission in Order No. 2010-12, the completion dates of 71 milestones have changed. Of these, 29 have been accelerated and 42 have been delayed for between one and 12 months.

#### **D. Construction Costs and Cost Forecasts**

As this report indicates, the Company is on track to complete the Units at the capital cost forecast of approximately \$4.3 billion as approved in Order No. 2011-345.

In Order No. 2009-104(A), the Commission recognized that forecasts of AFUDC expense and escalation would vary over the course of the project and required those forecasts to be updated with each quarterly report. New escalation indices were issued in May 2011 for the period of July-December of 2010 and those indices have been used in forecasting the construction costs for the project presented here. **Chart A** below compares the current capital cost forecast to the forecast presented in the last quarterly report.



Chart A: Reconciliation of Capital Cost (\$000)

<u>Forecast Item</u>	<u>Projected 3/31/11 @ Five-Year Average Escalation Rates</u>	<u>Projected 12/31/10 @ Five-Year Average Escalation Rates</u>	<u>Change</u>
Gross Construction	\$5,623,535	\$5,786,943	(\$163,408)
Less: AFUDC	\$246,515	\$255,684	(\$9,169)
Total Project Cash Flow	\$5,377,020	\$5,531,259	(\$154,239)
Less: Escalation	\$1,106,719	\$1,260,855	(\$154,136)
Capital Cost, 2007 Dollars	\$4,270,301	\$4,270,404	(\$103)

Chart A shows that the forecasted capital cost of the Units in 2007 dollars has decreased by approximately \$103,000. This reduction reflects the voluntary decision by the Company, communicated to the Commission by letter dated April 25, 2011, that it would not to seek recovery for \$103,000 in Community/Support Outreach costs that Westinghouse/Shaw had included in costs to be charged under the Engineering, Procurement and Construction Agreement (EPC Contract) for the Units.

**Chart B** compares the current forecast of gross construction costs, including current escalation, to the forecast on which the Commission relied in adopting Order No. 2011-345. Due to the changes in forecasted escalation rates when netted against other changes as discussed more fully below the cost of the plant in future dollars has decreased by \$163 million.

**Chart B: Reconciliation of Capital Cost (\$000)**

<u>Forecast Item</u>	<u>Projected @ 3/31/11 (Five-Year Average Rates)</u>	<u>As Forecasted Or Approved In Order 2011-345</u>	<u>Change</u>
Gross Construction	\$5,623,535	\$5,786,943	(\$163,408)
Less: AFUDC	\$246,515	\$255,684	(\$9,169)
Total Project Cash Flow	\$5,377,020	\$5,531,259	(\$154,239)
Less: Escalation	\$1,106,719	\$1,260,855	(\$154,136)
Capital Cost, 2007 Dollars	\$4,270,301	\$4,270,404	(\$103)

As shown on **Appendix 2, Chart B**, the total capital cost of the Units in current dollars has increased by approximately \$9 million compared to the adjusted target. This increase relates to cash flow timing matters exclusively and does not change the cost of the Units in 2007 dollars.

#### **E. Escalation Rates**

As provided in Order No. 2009-104(A), the most current twelve-month inflation indices are used to escalate costs occurring in the twelve-month period after the date of each quarterly report. As stated above, new escalation indices were last issued in May 2011 for the period of July-December of 2010 and those rates are reflected in this report.

As shown on **Appendix 4**, utility construction cost escalation rates were at historically high levels during the period 2005-2008, and since then have begun to drop. The current one-year averages and five-year averages are now closer to historical ten-year rates than they have been in certain past periods. Current escalation rates are shown on **Chart C**, below.

**Chart C: Handy-Whitman Escalation Rates**

<b><u>January 2011 Update</u></b>	
	<b>Escalation Rate</b>
<b><u>HW All Steam Index:</u></b>	
One Year Rate	<b>3.36%</b>
Five Year Average	<b>4.73%</b>
Ten Year Average	<b>4.45%</b>
<b><u>HW All Steam/Nuclear Index:</u></b>	
One Year Rate	<b>3.17%</b>
Five Year Average	<b>4.74%</b>
Ten Year Average	<b>4.46%</b>
<b><u>HW All Transmission Plant Index</u></b>	
One Year Rate	<b>1.44%</b>
Five Year Average	<b>4.33%</b>
Ten Year Average	<b>4.55%</b>

**F. AFUDC**

The AFUDC for the project is currently projected to be approximately \$9 million lower than the forecast on which Order No. 2011-345 was based. Consistent with Order No. 2009-104(A), SCE&G computes AFUDC based on the Federal Energy Regulatory Commission (FERC) approved methodology as applied to the balance of Construction Work in Progress (CWIP) that is outstanding between rate adjustments. SCE&G's AFUDC rate is currently 5.87% which is the same rate that applied when Order No. 2011-345 was issued. Standing alone, the current AFUDC rate would produce no change in the forecasted amount of AFUDC. However, lower escalation rates, as partially off-set by the effect of timing changes in the cash flows, have reduced the forecasted project cash flows for the project thereby producing the forecasted reduction in AFUDC for the project.



### **G. Compliance with the Commission Approved Cumulative Project Cash Flow Target**

The current approved Cumulative Project Cash Flow target for the project was adopted by the Commission in Order No. 2011-345. In Order No. 2009-104(A), the Commission provided that the applicable Cumulative Project Cash Flow target would be adjusted with each quarterly report to reflect updated escalation data.

**Appendix 2, Chart A** provides the approved Cumulative Project Cash Flow target updated for current escalation data. The cash flow targets up to December 31, 2010, have been updated to reflect actual escalation rates up to that date. The cash flow targets for the first quarter of 2011 and beyond have been updated based on the most recently available inflation indices, which for purposes of this report are the indices provided in May of 2011 that are current through December 31, 2010. When actual indices for the period January 1, 2011 to June 30, 2011 become available, the cash flow data for the first quarter of 2011 will be revised to reflect the actual escalation rates.

**Appendix 2, Chart B** compares the approved Cumulative Project Cash Flow target to the current cumulative cash flow schedules for the project, which include actual costs where available and SCE&G's working forecasts of annual cash flows for future years. In addition, the figures presented on **Appendix 2, Chart B** for 2011 have been adjusted to reflect timing differences between the billing methodology under the EPC Contract and the calculation of the escalated cash flow targets under Order No. 2009-104(A). Under the EPC Contract, for periods where actual escalation rates are not available, Westinghouse/Shaw bills SCE&G based on a rolling 2-year average of the applicable Handy-Whitman rate and provides adjustments in the following period to reflect the actual rate when it is known. An adjustment has been made to **Appendix 2, Chart B** to offset the timing difference related to Westinghouse/Shaw's approach to estimated billings and credits which applies to those EPC cost categories that are subject to indexed escalation. As shown on **Appendix 2, Chart B**, the adjustment for calendar year 2011 is calculated to be approximately (\$1.4) million based on data for the first quarter of 2011.

## **II. Progress of Construction of the Units**

Construction of the Units is progressing on schedule. However, in light of the anticipated delay in the issuance of the Combined Operating License (COL), which is discussed in more detail below, the current construction plan will not allow Unit 2 to be completed by the substantial completion date set forth in the EPC Contract. In response, in February of 2011, SCE&G approved Change Order 11 to the EPC Contract to provide for Westinghouse/Shaw to perform a COL Delay Impact Study to assess strategies for dealing with the delay. The study initially presented two alternative approaches. One scenario compressed the construction schedule for Unit 2 to retain the current substantial

completion date. The second scenario pushed the substantial completion date for Unit 2 out by six months. In March 2011, Westinghouse/Shaw submitted a preliminary draft of the study for review and critique by SCE&G. Upon review of the draft, SCE&G requested that the study evaluate a third scenario. That third scenario considers accelerating the substantial completion date for Unit 3 to determine whether such acceleration, when coupled with a delay in the Unit 2 substantial completion date, would create economies and efficiencies in the construction schedule. The logic of this third scenario is discussed more fully below at section II.E.4. A subsequent draft of the COL Delay Study Report has been provided to SCE&G for review and evaluation.

As discussed in more detail below, SCE&G does not have any information indicating that the March 11, 2011 earthquake and tsunami in Japan will impact the construction or permitting schedules for the Units.

A more detailed presentation of the status of the project is addressed in Section II.A-Section II.G below.

## **A. Licensing and Permitting Update**

### **1. The Combined Operating License Application (COLA)**

#### **a) Design Control Document (DCD) Revisions**

In December 2010, the Nuclear Regulatory Commission (NRC) Staff issued a favorable Safety Evaluation Report (SER) on the Design Control Document (DCD) Revision 18. During that same month, the Advisory Committee on Reactor Safeguards (ACRS) reviewed the SER and determined that the AP1000 design is fully adequate to protect public health and safety. In response, Westinghouse (WEC) is preparing a conforming Revision 19 to the DCD amendment application to incorporate into the DCD information that WEC previously had provided the NRC through Requests for Additional Information (RAIs). DCD Revision 19 will also include additional conforming amendments to the design that WEC has agreed to make as a result of the NRC's safety evaluation. WEC had previously committed to provide the NRC with DCD Revision 19 during the first quarter of 2011. However, several issues remain open and await completion of NRC Staff review. WEC is now expected to submit DCD Revision 19 to the NRC in June or July of 2011. The impact of this delay on the final rulemaking schedule is not known at this time but a delay of a month or more is anticipated.

As a result, SCE&G anticipates NRC approval of the amended DCD in the second half of 2011. The recent shift in the NRC schedule for DCD approval supports issuance of a COL for the Units in late 2011 or early 2012.



**b) Site-Specific COL and Reference Plant COL**

As of January 2011, the NRC Staff completed both its Phase A and B reviews to support development of the Advanced Final Safety Evaluation Report (AFSER) for the site-specific COLA for the Units. The second ACRS subcommittee meeting to review the remaining site specific information was held January 10 and 11, 2011. No significant issues were identified. In early February, the third and final full Committee ACRS meeting concluded favorably. As a result, on February 17, 2011, the ACRS issued a letter to the NRC supporting approval of the final COLA approval process to be conducted by the NRC Commissioners. On March 26, 2011, the NRC Staff completed Phase C of the safety review.

The NRC's review of the Reference Plant COL submitted by Southern Nuclear Operating Company for its units at Vogtle is on a similar schedule as the Units.

**c) Environmental Review**

In April 2011, subsequent to this reporting period, the NRC completed the Final Environmental Impact Statement (FEIS) for the Units. This is a significant milestone for the project, and completes the review of environmental impacts of the project. The approval of the FEIS in April 2011 supports the issuance of a COL for the Units in late 2011 or early 2012.

**d) Legal Review**

As noted in previous filings, several parties sought to intervene to raise issues before the Atomic Safety Licensing Board (ASLB) in its review of SCE&G's COLA. These interventions were dismissed either because their contentions were deemed not to be admissible, or because the intervenors lacked standing. As a result, there are no contentions associated with the COLA.

On April 15, 2011, subsequent to this reporting period, a number of individuals and environmental groups filed a petition before the NRC to suspend all pending reactor licensing decisions and related rulemaking decisions based on the events associated with the March 11, 2011 earthquake and tsunami in Japan. The NRC has taken no action with regard to this petition.

On March 21, 2011, the NRC established a senior level agency task force to conduct a comprehensive review of the NRC processes and regulations in light of the events in Japan. The task force will brief the NRC on its review at 30,



60 and 90 day intervals and will issue a preliminary report at the 90 day interval. The task force will complete a longer-term review six months from the beginning of the evaluation. On May 12, 2011, the task force conducted its initial briefing with the NRC and did not express any concerns regarding the Units.

SCE&G has no reason to believe that this review will impact the schedule for issuance of the COL for the Units. Initial reports indicate that the Japanese reactors withstood the effects of the massive earthquake and that the primary cause of the subsequent problems was the loss of power resulting from devastation of the site and its back-up power supplies caused by the tsunami. The passive safety features of the AP1000 design specifically allow for the safe shut down and stabilization of the reactors even in the event of the total loss of power for an extended period of time. Under the AP1000 design, back-up on-site power supplies are available as redundancy. As part of the NRC review process, the AP1000 units have been successfully analyzed against multiple disaster scenarios. In addition, the first of SCE&G's units is not scheduled for commercial operation until 2016. Any changes to plant safety procedures or standards that emerge from the NRC review of the events in Japan can be implemented prior to start-up of Unit 2 in 2016.

## **2. Other Major Construction Permits**

### **a) SCDHEC Permits**

- i. In February 2011, SCE&G received the South Carolina Department of Health and Environmental Control (SCDHEC) Phase 5 Stormwater permit which allows clearing and grading of 16.1 acres from the 13.8 kV alternate A/C line to the Raw Water Intake Structure (RWS).
- ii. SCE&G submitted the Preliminary Engineering Report and National Pollutant Discharge Elimination System (NPDES) Permit application to SCDHEC for the Wastewater System to Parr Reservoir. This application is for a permit to return fully treated discharge water into the Parr Reservoir. The application is under review with SCDHEC.

### **b) 401 Water Quality Certification and 404 Wetlands Permit**

- i. A 404 Wetlands Permit is required before undertaking construction within wetlands which are subject to the jurisdiction of the Federal government. An accompanying 401 Water Quality Certification is required to assess whether

aquatic life/water quality is adversely impacted by construction activities associated with a 404 Wetlands Permit. The 404 Wetlands Permit for the Units encompasses the Units' cooling water intake and discharge structures, the cooling towers, and the permanent water treatment plant. While not part of the 404 Wetlands Permit, the EIS on which the 404 is based covers the full extent of the plant, including the transmission lines. During the fourth quarter of 2010, SCE&G revised its 404 Wetlands Permit application for the project to reflect the Company's decision to use existing rights-of-way or to expand transmission corridors for the transmission lines to be constructed by SCE&G and Santee Cooper to serve the Units and has resubmitted that application to the Army Corps of Engineers (ACOE). Approval of this permit is expected in 2011. In April 2011, subsequent to this reporting period, the NRC issued the FEIS and SCE&G is now awaiting the ACOE permit and 401 Water Quality Certification. The ACOE permit is anticipated to be placed on public notice by the end of May 2011. Meanwhile, pending the issuance of the 401/404 permit for the project, Westinghouse/Shaw is working around the intermittent stream bank in the Cooling Towers area. The timely issuance of the 401 Water Quality Certification and the 404 Wetlands Permit is a focus area for the project.

**c) Other Permits**

- i. In late 2010, SCE&G submitted to the FERC a License Amendment Application to authorize it to withdraw cooling and other water for the Units from the Monticello Reservoir and to authorize other construction activities within the project boundaries of the reservoir. Approval for this license amendment is anticipated to be granted in June of 2011.

- ii. In March, SCE&G received approval from Norfolk Southern for the installation of 360 feet of 36-inch high-density polyethylene (HDPE) sanitary sewer pipe and one crossing in a 24-inch steel pipe under the Norfolk Railroad adjacent to Parr Reservoir for Units 2 & 3 Waste Water Discharge Blow Down Line. A Master Easement Agreement must be signed and returned to Norfolk Southern to finalize approval. This Agreement is under review with SCE&G.

### **3. BLRA Regulatory Proceedings**

On August 9, 2010, the South Carolina Supreme Court issued its opinion in South Carolina Energy Users Comm. v. South Carolina Pub. Serv. Comm'n, 388 S.C. 486, 697 S.E.2d 587 (2010). In the Opinion, the Court ruled that owner's capital cost contingencies were not permitted as part of BLRA-approved capital cost forecasts under the Base Load Review Act until costs could be identified and itemized to specific cost items. The Supreme Court's decision left open to SCE&G the option to petition the Commission under S.C. Code Ann. §58-33-270(E) to update the approved cash flow projections for the project. The Base Load Review Act requires such updates to be allowed unless the changes in the cash flow projections are proven to be the result of imprudence by the utility. On November 15, 2010, the Company filed with the Commission its Petition for Updates and Revisions to Capital Cost Schedules in Docket No. 2010-376-E. As set forth on Exhibit 1 to the Petition, the Company removed \$438,291,000 in owner's capital cost contingencies from its cost projections. In addition, the Company identified and itemized approximately \$174 million in costs to specific cost items in the capital cost forecast. Furthermore, the Petition updated the cash flow projections for the project to take into account all changes in the timing of cash flow requirements resulting from changes in project construction schedules and shifts in milestone dates. In May 2011, subsequent to this reporting period, the Commission issued Order No. 2011-345 approving the updated capital cost schedules for the project. Those schedules are incorporated in this report as the approved cost projections against which the project is measured for purposes of the Base Load Review Act. Parties objecting to the order must file a petition for rehearing with the Commission within ten days of receipt of the order.



## **B. Engineering Update**

### **1. Engineering Completion Status**

The V.C. Summer Units 2 & 3 Total Plant Design Completion Status is **87.8%**, which consists of the following:

- i. Standard Plant Design – 94.2% complete
- ii. Site Specific Design – 75.1% complete
- iii. Standard Plant VCS Construction Ready Drawings – 3.5% complete

The Engineering Completion Status as reported above reflects the work necessary to bring the design outputs to a point where they are sufficient to support procurement and construction planning. Certified for Construction (CFC) design packages include all information necessary for construction of specific structures, systems or components.

### **2. Site Specific Design Activities**

Shaw Engineering continues to perform Site Specific Design work to support the permitting for Site Specific Systems, to include the Circulating Water System, Yard Fire System, Potable Water System, Raw Water System, Sanitary Drain System and Waste Water System, and the Switchyard. There is a delay in Switchyard design progress, which is being tracked by SCE&G Engineering and Construction.

### **3. Procurement/Fabrication Update**

a) During the last quarter of 2010, Shaw placed on hold all fabrication or rework activities related to the Units by Shaw Modular Solutions (SMS). The purpose of the hold was to evaluate and correct quality assurance (QA) issues at SMS's fabrication facility. A root cause investigation was conducted. On January 10, 2011, the NRC was unable to complete a vendor inspection audit at SMS due to the lack of actual production work ongoing. The NRC then requested a plan of action from SMS addressing all issues identified since initiation of fabrication. SMS responded to the NRC's request, outlining corrective actions put in place to elevate SMS's QA program implementation to the level of effectiveness required for fabrication of AP1000 modules. In addition, the Consortium has increased its QA/QC oversight and presence at the SMS facility, and SMS has undertaken a broad-based program for improving its quality

control practices and procedures and strengthening the nuclear safety culture at its facility. As of the end of April 2011, SMS is demonstrating significant progress in implementing its plans and improving its QA program and culture. On March 7, 2011, the Shaw Nuclear Quality Assurance annual implementation audit was performed. At this time, SMS received approval to begin rework activities of floor submodules. Phase I Prototype activities are on-going, and welding activities have begun for Module Prototype Phase II. The on-hook dates of the CA20 and CA01 (*i.e.*, the dates by which fabrication is complete and they are ready to be lifted into place) remain at March 2012 and June 2012, respectively. Westinghouse/Shaw still must provide SCE&G with an updated and credible module fabrication and delivery schedule that takes into account recent delays and the schedule impacts that can be anticipated from SMS's on-going implementation of its new processes and culture. The production and review of this schedule remains a focus area.

**b)** As previously reported, WEC identified QA deficiencies during an audit of its supplier, Mangiarotti, leading to a number of temporary manufacturing holds being invoked by WEC related to Mangiarotti's sub-suppliers. WEC conducted multiple observations and reviews at the various fabrication facilities in an effort to resolve the sub-supplier issues regarding production and fabrication of AP1000 components for SCE&G. As a result of these efforts, two of the four BLRA milestones previously impacted by the hold were completed during the fourth quarter of 2010. Completion dates for the other two impacted BLRA milestones (11-3Q-3 "Pressurizer Fabricator Notice to Contractor of Welding of Upper and Intermediate Shells Completion", and 12-1Q-2 "Passive Residual Heat Removal Heat Exchanger Fabricator Notice to Contractor of Final Post Weld Heat Treatment") remain within the BLRA milestone schedule contingency, as does the shipment of these components to the site. However, past Stop Work Orders and failed sub-supplier qualifications have impacted fabrication activities and delivery schedule. There is a potential negative impact to the site delivery date regarding Accumulator Tanks; however, WEC is working with Mangiarotti to improve the schedule. All Mangiarotti equipment is closely monitored by SCE&G and the Consortium to ensure that equipment delivery supports the schedule, and any related BLRA milestones remain within the specified contingency.

Additional tests were required on the Reactor Coolant Pump (RCP) for the China AP1000 projects due to indications discovered during initial testing that warranted a root cause analysis by Westinghouse and the



manufacturer, EMD. Improvements to the RCP in several areas were made. A more extensive Engineering Test of the RCP began on December 22, 2010 and was successfully completed in January 2011. The Endurance Test began on April 28, 2011, and will extend through July 2011. All indications are that this test will conclude successfully.

c) Doosan continues with the fabrication of the Reactor Vessel for Unit 2. BLRA milestone “Reactor Vessel Fabricator Notice to Contractor of Outlet Nozzle Welding to Flange Nozzle Shell Completion Unit 2” (10-3Q-3) was completed on December 30, 2010, which supports the milestone date for the receipt of the Unit 2 Reactor Vessel on site (BLRA milestone 13-2Q-6).

d) As previously reported, the Unit 2 Reactor Coolant System (RCS) Reactor Coolant Loop (RCL) Piping experienced delays in hot leg manufacturing due to issues with some of the mockup pieces exceeding the maximum wall thickness. Although bending of the Hot Leg (HL) 6 section took place in December 2010 with no issues, RCS loop piping now is on hold, pending resolution of grain size deviations. SCE&G and the Consortium are closely monitoring any potential impacts to BLRA milestone 11-4Q-5 regarding shipment of the Unit 2 RCL piping to the site.

e) A Stop Work Order also has been put into effect for SPX, which manufactures Squib Valves for the Units. Production will not resume until SPX demonstrates that all WEC Qualified Suppliers requirements are being met. There currently is no projected date for manufacturing restart, but SCE&G is monitoring SPX’s progress in resolving its issues. Potential schedule impacts also are being assessed. This is a focus area.

f) Equipment being manufactured in Japan is being closely monitored to determine any future schedule impacts. This equipment includes the Turbine Generator, Main Transformer, and Containment Vessel. Immediately following the March 2011 earthquake, the Consortium issued a Force Majeure letter informing SCE&G of possible effects to the manufacturing schedule. At this time, however, no schedule impacts have been identified. None of the suppliers or sub-supplier facilities for the project are located in the immediate area of the earthquake. In addition, no suppliers or sub-suppliers have reported damage to equipment or work in progress. As a result, the principal area of concern is the effect of limited supplies of electricity and diversion of engineering



resources to the recovery effort. To date, no specific delays have been reported.

### **C. Construction Update**

1. Preconstruction work in the Switchyard continues, with the final 22 caissons being poured. However, due to weather delays, late issuance of documents for review, and delayed resolution of issues associated with design compliance to the approved Switchyard specification, work is approximately 2 months behind schedule. A Switchyard status meeting was held in April to determine the path forward. Shaw currently is developing an action plan to address open items that is due by May 13, 2011.

2. The Unit 2 power block excavation continues on schedule. Rock blasting and removal has been completed within the Nuclear Island, and an NRC inspection was conducted in April. Unit 3 excavation began in January 2011, and installation of the first 20 feet of the retaining wall has been completed.

3. Excavation for the first Cooling Tower foundation is complete. Deep foundations (steel h-piles) are being installed to support the structure and these are 75% complete.

4. The Module Assembly Building (MAB) structural work is complete and installation of permanent electrical power for the inside of the building is nearing completion.

5. Foundation work for the Heavy Lift Derrick (HLD) was completed in February 2011. Assembly of the carriage is underway, with parts arriving on site.

6. The second batch plant is complete, with production of non-safety concrete ongoing.

7. Preparation for Chicago Bridge & Iron (CB&I) mobilization continues, with assembly of the Containment Vessel Bottom Head (CVBH) support structure completed. Alignment finalization of the support structure is anticipated to be completed in May 2011. Assembly of the Containment Vessel (CV), however, remains on hold contingent upon resolution of previously reported CB&I QA program deficiencies identified at Vogtle. WEC performed a detailed surveillance in April to assess the condition of the CB&I program at the V.C. Summer site. As a result, additional corrective actions were given to CB&I to implement. WEC is scheduled to perform a follow-up audit in May. A Readiness

Review is also scheduled for May to determine whether or not CB&I will be released to work. This is a focus area.

#### **D. Training Update**

1. The major focus for Units 2 & 3 Training is completion of a six (6) week systems refresher course and “spin up” training using AP1000 Abnormal Operating Procedures and Emergency Operating Procedures to prepare the first group of 13 (twelve instructors and one supervisor) to attend the 17-week simulator portion of Instructor Senior Reactor Operator Certification (SRO-C) training on the Training Development Simulator at WEC in Cranberry, PA.

2. The Limited Scope Simulator (LSS) development remains on schedule to be operational in the first quarter of 2012; however, WEC recently informed SCE&G of a change in the schedule to conduct Integrated Systems Validation (ISV) testing on the LSS at WEC. The change is due to incomplete design inputs, procedures, and Probabilistic Risk Assessment (PRA). The proposal splits the tests into two phases, the first in 2011 and the second in the 2013/2014 timeframe. These changes will impact SCE&G’s ability to support the test with operating crews and could affect the capability of the LSS delivered to V.C. Summer. A meeting was held in April that addressed challenges associated with ISV schedule changes and LSS capabilities with WEC leadership. This is a focus area.

#### **E. Change Control/Owners Cost Forecast Update**

1. In Order No. 2011-345, the Commission approved updated Owners Cost projections for the project.

2. The process for approving Amendment No. 2 to the EPC Contract has been initiated. Amendment No. 2 will incorporate Change Orders 3 and 5-11 into the body of the EPC Contract.

3. Subsequent to this reporting period, SCE&G has provided a signed copy of Change Order 8 to WEC/Shaw. Change Order 8 embodies the provisions referenced in the Agreement signed by both Parties in August 2010 for the transfer of 11 scopes of work totaling approximately \$315 million from Target to Fixed/Firm cost categories.

4. In February 2011, SCE&G approved Change Order 11, which initiated a study conducted by WEC/Shaw that analyzed potential impacts to the construction schedule due to the probable delay in receiving the COL. The



original study considered two scenarios. One involved compressing the construction schedule to maintain the April 1, 2016 substantial completion date for Unit 2. The other involved delaying that date by 6 months. SCE&G has recently requested that the study consider a third scenario, under which the substantial completion date of Unit 2 would be delayed by 6 months and the substantial completion date of Unit 3 would be accelerated. By narrowing the gap between the Units, it may be possible to create construction efficiencies through avoiding demobilization and remobilization of crews as work progresses from one unit to another. A preliminary draft report including the third scenario has been provided for SCE&G for initial validation and review. There is no increase in EPC Contract cost associated with this change order.

## **F. Transmission Update**

1. SCE&G's Power Delivery group has resolved the routes for the four 230kV transmission lines associated with the Units, *i.e.*, the VCS1 – Killian Line (Unit 2), the VCS2 – Lake Murray Line (Unit 2), and the VCS2 – St. George #1 and #2 Lines (Unit 3). These new lines will now occupy existing transmission right of way (ROW) corridors except for a segment of approximately 6 miles of the VCS1-Killian Line that will be built on a new ROW.

2. The VCS-Winnsboro segment and the Winnsboro-Blythewood segment of the VCS1- Killian Line will be constructed on existing ROW.

3. The Blythewood-Killian segment of the VCS1- Killian Line will be constructed on new ROW. The siting of the Blythewood-Killian segment was determined by a siting process that included public workshops. Public workshops were held on October 29, 2009, and March 16, 2010, to receive public comments on proposed siting and alternate routes for this line. A final route was identified and route notification letters have been mailed to all property owners in the study area with survey notifications included for property owners adjacent to the selected route. The transmission line centerline has been surveyed and ROW easement drawings have been prepared. SCE&G commenced ROW acquisition on March 22, 2011. Of the 48 parcels involved, approximately 14 have been acquired as of the end of April 2011.

4. A final letter was mailed the first week in January 2011 to all property owners within the study area of the Winnsboro-Blythewood section of the VCS1- Killian Line announcing the close out of the siting study based upon the decision to use the existing ROW corridor. The property owners were informed that no further public workshops are planned as a result of our decision.



The remaining section (VCS-Winnsboro) as noted above will also occupy existing ROW, and no formal workshops are planned.

5. SCE&G has completed initial inventory surveys of its existing ROW corridors for the VCS2 – Lake Murray Line and has conducted title searches of the existing properties. Any questions related to the scope or suitability of the existing easements and encroachments are being identified and assessed with resolution expected in the coming months.

6. SCE&G has completed acquisition of additional land in St. George, South Carolina, that will allow for installation of the breaker-and-a-half switchyard configuration needed to connect Unit 3 via two new VCS2 – St. George Lines. The decision to utilize existing corridors to the fullest extent possible to construct the VCS2 – St. George Lines is expected to eliminate or minimize the need to acquire new or expanded right-of-way for this line.

7. SCE&G and Pike Energy Solutions signed an engineering, procurement and construction contract on February 28, 2011, to provide for the permitting, engineering and design, procurement of material, and the construction of the four lines needed to connect the Units.

### **III. Anticipated Construction Schedules**

As of March 31, 2011, the Company and its contractors remain on schedule to complete all required milestones as adjusted pursuant to the milestone schedule contingencies approved by the Commission in Order No. 2009-104(A). Each of those adjustments is itemized in the Milestone Update section that follows. Accordingly, the project is in compliance with the construction schedules approved by the Commission in Order No. 2010-12 and with the provisions of S.C. Code Ann. § 58-33-275(A)(1).

#### **A. Construction Schedule Update**

The Project Licensing and Permitting, Engineering, Procurement and Construction work remains on schedule to meet the Units' Substantial Completion dates. Rescheduling of the milestones is addressed in Section III.B. The rescheduling of these milestones is within the approved schedule contingencies and has no adverse impact on the Units' Substantial Completion dates.

#### **B. Milestone Update**

Attached as **Appendix 1** to this quarterly report is a spreadsheet that lists and updates each of the specific milestones constituting the anticipated construction schedule for the Units pursuant to S.C. Code Ann. § 58-33-270(B)(1) and Order No. 2010-12.

Comparing the milestone dates in this quarter to the reset milestone dates in Order No. 2010-12, 29 milestones have been advanced and 42 have been delayed. All milestone adjustments are within the scope of the milestone schedule contingencies authorized by the Commission in Order No. 2009-104(A). The milestone adjustments do not adversely affect the Substantial Completion dates for the Units.

#### **IV. Schedules of the Capital Costs Incurred Including Updates to the Information Required by S.C. Code Ann. § 58-33-270(B)(6) (the Inflation Indices)**

The Capital Cost Update section of this report (Section IV.A) provides an update of the cumulative capital costs incurred and forecasted to be incurred in completing the project. These costs are compared to the cumulative capital cost targets approved by the Commission in Order No. 2011-345. The approved capital cost targets have been adjusted to reflect the currently reported historical escalation rates. There has not been any use by the Company of the capital cost timing contingencies that were approved by the Commission in Order No. 2009-104(A). The Inflation Indices Update section (Section IV.B) of this report provides updated information on inflation indices and the changes in them.

##### **A. Capital Costs Update**

**Chart A of Appendix 2** shows the Cumulative Project Cash Flow target as approved in Order No. 2011-345 and as updated for escalation and other Commission approved adjustments under the heading “**Per Order 2011-345 Adjusted.**”

**Chart A of Appendix 2** also shows the cumulative cash flow for the project based on actual expenditures to date and the Company’s current forecast of cost and construction schedule under the heading “**Actual Through March 2011, plus Projected.**”

As shown on **Appendix 2, Chart A**, the actual expenditure for the project during the 12 months ended 2010 is approximately \$399 million. As shown on **Appendix 2, Chart B**, line 25, the cumulative amount projected to be spent on the project as of December 31, 2011 is \$1.324 billion. The Cumulative Project Cash Flow target approved by the Commission for year-end 2011 adjusted for current escalation and Westinghouse/Shaw billing differences is \$1.343 billion. As a result, the cumulative cash flow at year-end 2011 is forecasted to be approximately \$19 million less than the target.

For comparison purposes, **Appendix 3** sets out the cash flow schedule for the project as it was approved in Order No. 2011-345. **Appendix 3** does not include any adjustments to the cash flow schedule for changes in inflation indices or adjustments in capital cost schedules made by the Company. The AFUDC forecast presented on **Appendix 3** is the AFUDC forecast that was current at the time of Order No. 2011-345.

## **B. Inflation Indices Update**

**Appendix 4** shows the updated inflation indices approved in Order No. 2009-104(A). Included is a history of the annual Handy Whitman All Steam Index, South Atlantic Region; the Handy Whitman All Steam and Nuclear Index, South Atlantic Region; Handy Whitman All Transmission Plant Index, South Atlantic Region; and the Chained GDP Index for the past 10 years. The changes in these indices and the escalation-related effects of cost rescheduling resulted in a decrease in the projected cost of the Units in future dollars from \$5.8 billion as forecast in Order No. 2011-345 to a forecast of \$5.6 billion using current inflation data.

## **V. Updated Schedule of Anticipated Capital Costs**

The updated schedule of anticipated capital costs for Units 2 & 3 is reflected in **Appendix 2, Chart A**.

## **VI. Conclusion**

As indicated above, the scheduled completion dates for Units 2 & 3 remain unchanged. The Units are on track to be completed within the approved cost of \$4.3 billion in 2007 dollars. The Company maintains an extensive staff of experts that monitors and oversees the work of its contractors and has identified and continues to monitor closely all areas of concern related to either cost or schedule for the project. The Company will continue to update the Commission and ORS of progress and concerns as the project proceeds.



**ATTACHMENT 1****GLOSSARY OF ACRONYMS OR DEFINED TERMS**

<b>Acronym or Defined Term</b>	<b>Reference</b>
ACOE	The United States Army Corps of Engineers.
ACRS	Advisory Committee on Reactor Safeguards - a committee organized to independently review license applications and advise the NRC.
AECOM	A private engineering firm that works for Norfolk Southern railroad.
AFUDC	Allowance for Funds Used During Construction.
AP1000	The Westinghouse designed Advanced Pressurized water nuclear reactor of approximately 1000 megawatts generating capacity.
ASER	Advanced Safety Evaluation Report—a report by the NRC staff concerning its evaluation of the safety aspects of a nuclear license application.
ASLB	The Atomic Safety Licensing Board of the Nuclear Regulatory Commission.
BLRA	The Base Load Review Act, S.C. Code Ann. § 58-33-210 et seq. (Supp. 2009).
CA	The designation for a specific pre-fabricated construction module that forms part of the reactor building, such as Module CA20.
CB&I	Chicago Bridge & Iron, a sub-contractor on the project.
CFC	Certified For Construction—engineering and design drawings that are ready for construction to begin.
COL	A Combined Operating License for construction and operation of a nuclear unit issued by the NRC.
COLA	A Combined Operating License Application.
Commission	The Public Service Commission of South Carolina.
Consortium	The joint venture between Westinghouse Electric Company, LLC and the Shaw Group to construct the Units under the terms of the EPC Contract.
CVBH	The Containment Vessel Bottom Head that forms the bottom of the Containment Vessel.
CWIP	Construction Work in Progress.
CWS	The Circulating Water System—the system that will transport waste heat from the turbines to the cooling towers.
DCD	Design Control Document (a Nuclear Regulatory Commission document).
DSM	Demand Side Management—programs to reduce the demand for electrical capacity and energy.
EIS	An Environmental Impact Statement as required by the National Environmental Policy Act of 1969.
EMD	The sub-contractor for the Reactor Cooling Pump.
EPC Contract	The Engineering, Procurement and Construction Agreement for construction of the Units entered into by SCE&G and Westinghouse/Shaw.
FEIS	A Final Environmental Impact Statement as required by the National Environmental Policy Act of 1969.
FERC	The Federal Energy Regulatory Commission.
Fixed/Firm	Prices under the EPC Contract which are either fixed or are firm but subject to defined escalation rates.
FSER	A Final Safety Evaluation Report—a report by the NRC staff concerning its evaluation of the safety aspects of a nuclear license application.
GDP	Gross Domestic Product.
HL or Hot Leg	That part of the Reactor Cooling Loop that transports steam to the steam generators.

**ATTACHMENT 1****GLOSSARY OF ACRONYMS OR DEFINED TERMS**

<b>Acronym or Defined Term</b>	<b>Reference</b>
HLD	Heavy Lift Derrick - the derrick that will be erected on site to move large modules and equipment.
IPS	Integrated Project Schedule for licensing and construction of the Units.
ISV	Integrated Systems Validation.
MAB	Module Assembly Building -a building on site where large modules will be constructed and equipment will be prepared for installation in a space that is protected from the elements.
NLC	Nuclear Learning Center - a training facility operated by SCE&G at the Jenkinsville site.
NND	The New Nuclear Deployment Team within SCE&G.
NPDES	National Pollutant Discharge Elimination System
NRC	The United States Nuclear Regulatory Commission.
Opinion	The opinion in South Carolina Energy Users Comm. v. South Carolina Pub. Serv. Comm'n, 388 S.C. 486, 697 S.E.2d 587 (2010).
ORS	South Carolina Office of Regulatory Staff.
Petition	The Petition for Updates and Revisions to Capital Cost Schedules, filed by the Company with the Public Service Commission of South Carolina in Docket No. 210-276-E.
PRA	Probabilistic Risk Assessment.
QA/QC	Quality Assurance/Quality Control.
RAI	Requests for Additional Information issued by the NRC staff to license applicants.
RCL	The Reactor Coolant Loop –the piping and related equipment that transports heat from the reactor to the steam generator.
RCP	The Reactor Cooling Pump which forms part of the Reactor Coolant System.
RCS	The Reactor Coolant System -the complete system for transferring and transporting heat from the reactor to the steam generator.
ROW	Right of way.
SCDHEC	The South Carolina Department of Health and Environmental Control.
SCE&G	South Carolina Electric & Gas Company.
SCEUC	The South Carolina Energy Users Committee.
SER	Safety Evaluation Report—a report by the NRC staff concerning its evaluation of the safety aspects of a nuclear license application.
Shaw	The Shaw Group.
SMS	Shaw Module Solutions, LLC.
SRO-C	Senior Reactor Operator Certification.
Target	Costs under the EPC Contract where targets have been established but where SCE&G pays actual costs as incurred.
Units	V. C. Summer Nuclear Station Units 2 & 3.
VCSNS	V. C. Summer Nuclear Station.
WEC	Westinghouse Electric Company, LLC.
WEC/Shaw or Westinghouse/Shaw	The consortium formed by Westinghouse Electric Company, LLC and the Shaw Group.

## **APPENDIX 1**

### **V. C. Summer Nuclear Station Units 2 & 3**

**Quarterly Report to the South Carolina Office of Regulatory Staff  
Submitted by South Carolina Electric & Gas Company  
Pursuant to Public Service Commission Order No. 2009-104(A)**

#### **Quarter Ending March 31, 2011**

**Appendix 1** lists and updates each of the milestones which the Commission adopted as the Approved Construction Schedule for the Units, pursuant to S.C. Code Ann. § 58-33-270(B)(1) in Order No. 2010-12. **Appendix 1** provides columns with the following information:

1. Milestone tracking ID number.
2. The description of the milestone as updated in Order No. 2010-12.
3. The BLRA milestone date, both by year and quarter and the specific calendar date for the milestone, as approved by the Commission in Order No. 2010-12.
4. The current milestone date, both by year and quarter and the specific calendar date for the milestone.
5. For each actual completed milestone, the date by which it was completed. For completed milestones, the milestone entry is shaded in gray.
6. Information showing the number of months, if any, by which a milestone has been shifted.
7. Information as to whether any milestone has been shifted outside of the 18/24 Month Contingency approved by the Commission.
8. Information as to whether any current change in this milestone is anticipated to impact the substantial completion date.
9. Notes.
10. On the final page of the document, there is a chart summarizing milestone completion and movement comparing the current milestone date to the milestone date approved in Order No. 2010-12. This movement is shown for only the milestones that have not been completed.




11-1Q

**Appendix 1**  
**VC Summer Units 2 and 3**

Tracking ID	Order No. 2010-12 Description	Order No. 2010-12 Date	11-1Q Targeted Milestone Completion Date	Actual Completion Date	Delta Months from Order No. 2010-12 Date	Outside +18/-24 Months Contingency?	Substantial Completion Date Impact?	Notes
1	08-2Q-1: Approve Engineering Procurement and Construction Agreement	5/23/2008		5/23/2008		No	No	
2	08-2Q-2: Issue P.O.'s to nuclear component fabricators for Units 2 and 3 Containment Vessels	12/3/2008		12/3/2008		No	No	
3	08-2Q-2: Contractor Issue PO to Passive Residual Heat Removal Heat Exchanger Fabricator - First Payment - Unit 2	8/31/2008		8/18/2008		No	No	
4	08-2Q-2: Contractor Issue PO to Accumulator Tank Fabricator - Unit 2	7/31/2008		7/31/2008		No	No	
5	08-2Q-2: Contractor Issue PO to Core Makeup Tank Fabricator - Units 2 & 3	9/30/2008		9/30/2008		No	No	
6	08-2Q-2: Contractor Issue PO to Squib Valve Fabricator - Units 2 & 3	3/31/2009		3/31/2009		No	No	
7	08-2Q-2: Contractor Issue PO to Steam Generator Fabricator - Units 2 & 3	6/30/2008		5/29/2008		No	No	
8	08-2Q-2: Contractor Issue Long Lead Material PO to Reactor Coolant Pump Fabricator - Units 2 & 3	6/30/2008		6/30/2008		No	No	
9	08-2Q-2: Contractor Issue PO to Pressurizer Fabricator - Units 2 & 3	8/31/2008		8/18/2008		No	No	
10	08-2Q-2: Contractor Issue PO to Reactor Coolant Loop Pipe Fabricator - First Payment - Units 2 & 3	6/30/2008		6/20/2008		No	No	
11	08-2Q-2: Reactor Vessel Internals - Issue Long Lead Material PO to Fabricator - Units 2 and 3	11/21/2008		11/21/2008		No	No	
12	08-2Q-2: Contractor Issue Long Lead Material PO to Reactor Vessel Fabricator - Units 2 & 3	6/30/2008		5/29/2008		No	No	

Color Legend

 = Completed

 = Completed this Quarter


 = Movement in Days Only

11-1Q

Appendix 1  
VC Summer Units 2 and 3

Tracking ID	Order No. 2010-12 Description	Order No. 2010-12 Date	11-1Q Targeted Milestone Completion Date	Actual Completion Date	Delta Months from Order No. 2010-12 Date	Outside +18/-24 Months Contingency?	Substantial Completion Date Impact?	Notes
13	08-2Q-2: Contractor Issue PO to Integrated Head Package Fabricator - Units 2 & 3	7/31/2009		7/31/2009		No	No	
14	08-2Q-2: Control Rod Drive Mechanism Issue PO for Long Lead Material to Fabricator - Units 2 and 3 - first payment	6/21/2008		6/21/2008		No	No	
15	08-2Q-2: Issue P.O.'s to nuclear component fabricators for Nuclear Island structural CA20 Modules	7/31/2009		8/28/2009		No	No	
16	08-3Q-1: Start Site Specific and balance of plant detailed design	9/11/2007		9/11/2007		No	No	
17	08-3Q-2: Instrumentation & Control Simulator - Contractor Place Notice to Proceed - Units 2 & 3	10/31/2008		10/31/2008		No	No	
18	08-3Q-3: Steam Generator - Issue Final PO to Fabricator for Units 2 and 3	6/30/2008		6/30/2008		No	No	
19	08-3Q-3: Reactor Vessel Internals - Contractor Issue PO for Long Lead Material (Heavy Plate and Heavy Forgings) to Fabricator - Units 2 & 3	1/31/2010		1/29/2010		No	No	
20	08-3Q-3: Contractor Issue Final PO to Reactor Vessel Fabricator - Units 2 & 3	9/30/2008		9/30/2008		No	No	
21	08-3Q-4: Variable Frequency Drive Fabricator Issue Transformer PO - Units 2 & 3	4/30/2009		4/30/2009		No	No	
22	08-4Q-1: Start clearing, grubbing and grading	1/26/2009		1/26/2009		No	No	
23	08-4Q-2: Core Makeup Tank Fabricator Issue Long Lead Material PO - Units 2 & 3	10/31/2008		10/31/2008		No	No	
24	08-4Q-2: Accumulator Tank Fabricator Issue Long Lead Material PO - Units 2 & 3	10/31/2008		10/31/2008		No	No	
25	08-4Q-2: Pressurizer Fabricator Issue Long Lead Material PO - Units 2 & 3	10/31/2008		10/31/2008		No	No	

Color Legend

 = Completed

 = Completed this Quarter

 = More than 180 Days Only




11-1Q

**Appendix 1**  
**VC Summer Units 2 and 3**

Tracking ID	Order No. 2010-12 Description	Order No. 2010-12 Date	11-1Q Targeted Milestone Completion Date	Actual Completion Date	Delta Months from Order No. 2010-12 Date	Outside +18/-24 Months Contingency?	Substantial Completion Date Impact?	Notes
26	08-4Q-2: Reactor Coolant Loop Pipe - Contractor Issue PO to Fabricator - Second Payment - Units 2 & 3	4/30/2009		4/30/2009		No	No	
27	08-4Q-2: Integrated Head Package - Issue PO to Fabricator - Units 2 and 3 - second payment	7/31/2009		7/31/2009		No	No	
28	08-4Q-2: Control Rod Drive Mechanisms - Contractor Issue PO for Long Lead Material to Fabricator - Units 2 & 3	6/30/2008		6/30/2008		No	No	
29	08-4Q-2: Contractor Issue PO to Passive Residual Heat Removal Heat Exchanger Fabricator - Second Payment - Units 2 & 3	10/31/2008		10/31/2008		No	No	
30	9-1Q-1: Start Parr Road intersection work.	2/13/2009		2/13/2009		No	No	
31	09-1Q-2: Reactor Coolant Pump - Issue Final PO to Fabricator - Units 2 and 3	6/30/2008		6/30/2008		No	No	
32	09-1Q-3: Integrated Heat Packages Fabricator Issue Long Lead Material PO - Units 2 & 3	10/31/2009		10/1/2009		No	No	
33	09-1Q-4: Design Finalization Payment 3	1/31/2009		1/30/2009		No	No	
34	09-2Q-1: Start site development	6/23/2008		6/23/2008		No	No	
35	09-2Q-2: Contractor Issue PO to Turbine Generator Fabricator - Units 2 & 3	2/28/2009		2/19/2009		No	No	
36	09-2Q-2: Contractor Issue PO to Main Transformers Fabricator - Units 2 & 3	9/30/2009		9/25/2009		No	No	
37	09-2Q-3: Core Makeup Tank Fabricator Notice to Contractor Receipt of Long Lead Material - Units 2 & 3	11/30/2010		12/30/2010		No	No	
38	09-2Q-4: Design Finalization Payment 4	4/30/2009		4/30/2009		No	No	
39	09-3Q-1: Turbine Generator Fabricator Issue PO for Condenser Material - Unit 2	8/31/2009		8/28/2009		No	No	

Color Legend

 = Completed

 = Completed this Quarter

 = Movement in Days Only




11-1Q

Appendix 1  
VC Summer Units 2 and 3

Tracking ID	Order No. 2010-12 Description	Order No. 2010-12 Date	11-1Q Targeted Milestone Completion Date	Actual Completion Date	Delta Months from Order No. 2010-12 Date	Outside +18/-24 Months Contingency?	Substantial Completion Date Impact?	Notes
40	09-3Q-2: Reactor Coolant Pump Fabricator Issue Long Lead Material Lot 2 - Units 2 & 3	4/30/2009		4/30/2009		No	No	
41	09-3Q-2: Passive Residual Heat Removal Heat Exchanger Fabricator Receipt of Long Lead Material - Units 2 & 3	5/31/2010		5/27/2010		No	No	
42	09-3Q-3: Design Finalization Payment 5	7/31/2009		7/31/2009		No	No	
43	09-4Q-1: Start erection of construction buildings, to include craft facilities for personnel, tools, equipment; first aid facilities; field offices for site management and support personnel; temporary warehouses; and construction hiring office.	10/9/2009		12/18/2009		No	No	
44	09-4Q-2: Reactor Vessel Fabricator Notice to Contractor of Receipt of Flange Nozzle Shell Forging - Unit 2	7/31/2009		8/28/2009		No	No	
45	09-4Q-3: Design Finalization Payment 6	10/31/2009		10/7/2009		No	No	
46	09-4Q-4: Instrumentation and Control Simulator - Contractor Issue PO to Subcontractor for Radiation Monitor System - Units 2 & 3	12/31/2009		12/17/2009		No	No	
47	10-1Q-1: Reactor Vessel Internals - Fabricator Start Fit and Welding of Core Shroud Assembly - Unit 2	11-2Q 6/30/2011	11-2Q 6/30/2011			No	No	
48	10-1Q-2: Turbine Generator Fabricator Issue PO for Moisture Separator Reheater/Feedwater Heater Material - Unit 2	4/30/2010		4/30/2010		No	No	
49	10-1Q-3: Reactor Coolant Loop Pipe Fabricator Acceptance of Raw Material- Unit 2	4/30/2010		2/18/2010		No	No	

Color Legend

 Completed

 Completed this quarter


 Movement in Days Only

11-1Q

**Appendix 1**  
**VC Summer Units 2 and 3**

Tracking ID	Order No. 2010-12 Description	Order No. 2010-12 Date	11-1Q Targeted Milestone Completion Date	Actual Completion Date	Delta Months from Order No. 2010-12 Date	Outside +18/-24 Months Contingency?	Substantial Completion Date Impact?	Notes
50	10-2Q-1: Reactor Vessel Internals - Fabricator Start Weld Neutron Shield Spacer Pads to Assembly - Unit 2	11-4Q 10/31/2011	12-1Q 2/28/2012		+4 Month(s)	No	No	Due to schedule re-work and status.
51	10-2Q-2: Control Rod Drive Mechanisms - Fabricator to Start Procurement of Long Lead Material - Unit 2	6/30/2009		6/30/2009		No	No	
52	10-2Q-3: Contractor Notified that Pressurizer Fabricator Performed Cladding on Bottom Head - Unit 2	11/30/2010		12/23/2010		No	No	
53	10-3Q-1: Start excavation and foundation work for the standard plant for Unit 2	3/15/2010		3/15/2010		No	No	
54	10-3Q-2: Steam Generator Fabricator Notice to Contractor of Receipt of 2nd Steam Generator Tubesheet Forging - Unit 2	2/28/2010		4/30/2010		No	No	
55	10-3Q-3: Reactor Vessel Fabricator Notice to Contractor of Outlet Nozzle Welding to Flange Nozzle Shell Completion - Unit 2	2/28/2010		12/30/2010		No	No	
56	10-3Q-4: Turbine Generator Fabricator Notice to Contractor Condenser Fabrication Started - Unit 2	5/31/2010		5/17/2010		No	No	
57	10-4Q-1: Complete preparations for receiving the first module on site for Unit 2.	8/18/2010		1/22/2010		No	No	
58	10-4Q-2: Steam Generator Fabricator Notice to Contractor of Receipt of 1st Steam Generator Transition Cone Forging - Unit 2	4/30/2010		4/21/2010		No	No	
59	10-4Q-3: Reactor Coolant Pump Fabricator Notice to Contractor of Manufacturing of Casing Completion - Unit 2	11/30/2010		11/16/2010		No	No	

Color Legend

 = Completed

 = Completed this Quarter

 = Movement in Days Only



11-1Q

**Appendix 1**  
**VC Summer Units 2 and 3**

Tracking ID	Order No. 2010-12 Description	Order No. 2010-12 Date	11-1Q Targeted Milestone Completion Date	Actual Completion Date	Delta Months from Order No. 2010-12 Date	Outside +18/-24 Months Contingency?	Substantial Completion Date Impact?	Notes
60	10-4Q-4: Reactor Coolant Loop Pipe Fabricator Notice to Contractor of Machining, Heat Treating & Non-Destructive Testing Completion - Unit 2	10-4Q 12/31/2010	11-2Q 5/31/2011		+5 Month(s)	No	No	Due to schedule re-work and status.
61	11-1Q-1: Core Makeup Tank Fabricator Notice to Contractor of Satisfactory Completion of Hydrotest - Unit 2	11-2Q 5/31/2011	11-4Q 12/31/2011		+7 Month(s)	No	No	Due to schedule re-work and status.
62	11-1Q-2: Polar Crane Fabricator Issue PO for Main Hoist Drum and Wire Rope - Units 2 & 3	11-1Q 2/28/2011		2/1/2011		No	No	
63	11-2Q-1: Control Rod Drive Mechanisms- Fabricator to Start Procurement of Long Lead Material- Unit 3	11-2Q 6/30/2011	11-2Q 6/30/2011			No	No	
64	11-2Q-2: Turbine Generator Fabricator Notice to Contractor Condenser Ready to Ship - Unit 2	11-4Q 10/31/2011	12-1Q 1/31/2012		+3 Month(s)	No	No	Due to schedule re-work and status.
65	11-3Q-1: Start placement of mud mat for Unit 2	11-3Q 7/14/2011	11-4Q 10/28/2011		+3 Month(s)	No	No	Due to schedule refinement and review.
66	11-3Q-2: Steam Generator Fabricator Notice to Contractor of Receipt of 1st Steam Generator Tubing - Unit 2	1/31/2011		9/28/2010		No	No	
67	11-3Q-3: Pressurizer Fabricator Notice to Contractor of Welding of Upper and Intermediate Shells Completion- Unit 2	10-4Q 10/31/2010	11-2Q 5/31/2011		+7 Month(s)	No	No	Due to schedule re-work and status.
68	11-3Q-4: Reactor Vessel Fabricator Notice to Contractor of Closure Head Cladding Completion- Unit 3	12-1Q 2/28/2012	12-1Q 2/28/2012			No	No	
69	11-4Q-1: Begin Unit 2 first nuclear concrete placement	11-4Q 10/3/2011	11-4Q 10/20/2011			No	No	Due to schedule refinement.

On 1Q end

D.C. not completed



Completed this quarter



Movement in DW's Only



11-1Q

**Appendix 1**  
**VC Summer Units 2 and 3**

Tracking ID	Order No. 2010-12 Description	Order No. 2010-12 Date	11-1Q Targeted Milestone Completion Date	Actual Completion Date	Delta Months from Order No. 2010-12 Date	Outside +18/-24 Months Contingency?	Substantial Completion Date Impact?	Notes
70	11-4Q-2: Reactor Coolant Pump Fabricator Notice to Contractor of Stator Core Completion - Unit 2	11-3Q 9/30/2011	11-4Q 11/30/2011		+2 Month(s)	No	No	Due to schedule re-work and status.
71	11-4Q-3: Fabricator Start Fit and Welding of Core Shroud Assembly - Unit 2	11-2Q 6/30/2011	11-2Q 6/30/2011			No	No	
72	11-4Q-4: Steam Generator Fabricator Notice to Contractor of Completion of 1st Steam Generator Tubing Installation - Unit 2	11-2Q 5/31/2011	11-3Q 9/30/2011		+4 Month(s)	No	No	Due to schedule re-work and status.
73	11-4Q-5: Reactor Coolant Loop Pipe - Shipment of Equipment to Site - Unit 2	12-4Q 12/31/2012	12-4Q 12/31/2012			No	No	
74	11-4Q-6: Control Rod Drive Mechanism - Ship Remainder of Equipment (Latch Assembly & Rod Travel Housing) to Head Supplier - Unit 2	11-4Q 12/31/2011	12-2Q 4/30/2012		+4 Month(s)	No	No	Due to schedule re-work and status.
75	11-4Q-7: Pressurizer Fabricator Notice to Contractor of Welding of Lower Shell to Bottom Head Completion - Unit 2	10-4Q 10/31/2010	11-2Q 6/30/2011		+8 Month(s)	No	No	Due to schedule re-work and status.
76	11-4Q-8: Steam Generator Fabricator Notice to Contractor of Completion of 2nd Steam Generator Tubing Installation - Unit 2	11-2Q 6/30/2011	11-4Q 10/31/2011		+4 Month(s)	No	No	Due to schedule re-work and status.
77	11-4Q-9: Design Finalization Payment 14	11-4Q 10/31/2011	11-4Q 10/31/2011			No	No	
78	12-1Q-1: Set module CA04 for Unit 2	12-1Q 1/27/2012	12-2Q 5/17/2012		+4 Month(s)	No	No	Due to schedule re-work and status.
79	12-1Q-2: Passive Residual Heat Removal Heat Exchanger Fabricator Notice to Contractor of Final Post Weld Heat Treatment - Unit 2	10-2Q 6/30/2010	11-2Q 4/30/2011		+10 Month(s)	No	No	Due to schedule re-work and status.

GEP Legend

D.C. = Completed

O = Completed this Quarter

O = Movement in Days Only

11-1Q

Appendix 1  
VC Summer Units 2 and 3

Tracking ID	Order No. 2010-12 Description	Order No. 2010-12 Date	11-1Q Targeted Milestone Completion Date	Actual Completion Date	Delta Months from Order No. 2010-12 Date	Outside +18/-24 Months Contingency?	Substantial Completion Date Impact?	Notes
80	12-1Q-3: Passive Residual Heat Removal Heat Exchanger Fabricator Notice to Contractor of Completion of Tubing - Unit 2	11-1Q 1/31/2011	12-1Q 1/31/2012		+12 Month(s)	No	No	Due to schedule re-work and status.
81	12-1Q-4: Polar Crane Fabricator Notice to Contractor of Girder Fabrication Completion - Unit 2	12-1Q 2/28/2012	12-3Q 7/31/2012		+5 Month(s)	No	No	Due to schedule re-work and status.
82	12-1Q-5: Turbine Generator Fabricator Notice to Contractor Condenser Ready to Ship - Unit 3	13-3Q 8/31/2013	13-3Q 7/31/2013		-1 Month(s)	No	No	Schedule ahead of plan.
83	12-2Q-1: Set Containment Vessel ring #1 for Unit 2	12-2Q 4/3/2012	12-4Q 10/12/2012		+6 Month(s)	No	No	Due to schedule re-work and status.
84	12-2Q-2: Reactor Coolant Pump Fabricator Delivery of Casings to Port of Export - Unit 2	12-1Q 3/31/2012	11-4Q 12/31/2011		-3 Month(s)	No	No	Schedule ahead of plan.
85	12-2Q-3: Reactor Coolant Pump Fabricator Notice to Contractor of Stator Core Completion - Unit 3	13-3Q 8/31/2013	13-1Q 1/31/2013		-7 Month(s)	No	No	Schedule ahead of plan.
86	12-2Q-4: Reactor Vessel Fabricator Notice to Contractor of Receipt of Core Shell Forging - Unit 3	12-3Q 9/30/2012	12-2Q 5/31/2012		-4 Month(s)	No	No	Schedule ahead of plan.
87	12-2Q-5: Contractor Notified that Pressurizer Fabricator Performed Cladding on Bottom Head - Unit 3	13-1Q 1/31/2013	11-4Q 10/31/2011		-15 Month(s)	No	No	Schedule ahead of plan.
88	12-3Q-1: Set Nuclear Island structural module CA03 for Unit 2	12-3Q 8/30/2012	13-1Q 2/28/2013		+6 Month(s)	No	No	Due to schedule re-work and status.
89	12-3Q-2: Squib Valve Fabricator Notice to Contractor of Completion of Assembly and Test for Squib Valve Hardware - Unit 2	12-2Q 5/31/2012	12-2Q 5/31/2012			No	No	
90	12-3Q-3: Accumulator Tank Fabricator Notice to Contractor of Satisfactory Completion of Hydrotest-1 Unit 3	12-4Q 12/31/2012	12-4Q 11/30/2012		-1 Month(s)	No	No	Schedule ahead of plan.

Color Legend

D, C Completed

O Completed this Quarter


O May/Sept in Days Only


11-1Q

**Appendix 1**  
**VC Summer Units 2 and 3**

Tracking ID	Order No. 2010-12 Description	Order No. 2010-12 Date	11-1Q Targeted Milestone Completion Date	Actual Completion Date	Delta Months from Order No. 2010-12 Date	Outside +18/-24 Months Contingency?	Substantial Completion Date Impact?	Notes
91	12-3Q-4: Polar Crane Fabricator Notice to Contractor of Electric Panel Assembly Completion - Unit 2	12-3Q 7/31/2012	12-2Q 6/30/2012		-1 Month(s)	No	No	Schedule ahead of plan.
92	12-4Q-1: Start containment large bore pipe supports for Unit 2	12-2Q 4/9/2012	12-3Q 8/31/2012		+4 Month(s)	No	No	Due to schedule re-work and status.
93	12-4Q-2: Integrated Head Package - Shipment of Equipment to Site - Unit 2	12-4Q 10/31/2012	13-1Q 2/28/2013		+4 Month(s)	No	No	Due to schedule re-work and status.
94	12-4Q-3: Reactor Coolant Pump Fabricator Notice to Contractor of Final Stator Assembly Completion - Unit 2	12-4Q 11/30/2012	12-4Q 11/30/2012			No	No	
95	12-4Q-4: Steam Generator Fabricator Notice to Contractor of Completion of 2nd Steam Generator Tubing Installation - Unit 3	13-2Q 5/31/2013	13-2Q 4/30/2013		-1 Month(s)	No	No	Schedule ahead of plan.
96	12-4Q-5: Steam Generator Fabricator Notice to Contractor of Satisfactory Completion of 1st Steam Generator Hydrotest - Unit 2	12-2Q 5/31/2012	12-3Q 7/31/2012		+2 Month(s)	No	No	Due to schedule re-work and status.
97	13-1Q-1: Start concrete fill of Nuclear Island structural modules CA01 and CA02 for Unit 2	13-1Q 2/26/2013	13-3Q 8/30/2013		+6 Month(s)	No	No	Due to schedule re-work and status.
98	13-1Q-2: Passive Residual Heat Removal Heat Exchanger - Delivery of Equipment to Port of Entry - Unit 2	12-2Q 4/30/2012	12-2Q 4/30/2012			No	No	
99	13-1Q-3: Refueling Machine Fabricator Notice to Contractor of Satisfactory Completion of Factory Acceptance Test - Unit 2	13-1Q 2/28/2013	12-3Q 9/30/2012		-5 Month(s)	No	No	Schedule ahead of plan.
100	13-1Q-4: Deliver Reactor Vessel Internals to Port of Export - Unit 2	13-3Q 7/31/2013	13-4Q 11/30/2013		+4 Month(s)	No	No	Due to schedule re-work and status.
101	13-2Q-1: Set Unit 2 Containment Vessel IB	13-2Q 4/17/2013	13-4Q 10/17/2013		+6 Month(s)	No	No	Due to schedule re-work and status.

Color legend

 Completed

 Completed this quarter

 Mileage in Days Only




11-1Q

**Appendix 1**  
**VC Summer Units 2 and 3**

Tracking ID	Order No. 2010-12 Description	Order No. 2010-12 Date	11-1Q Targeted Milestone Completion Date	Actual Completion Date	Delta Months from Order No. 2010-12 Date	Outside +18/-24 Months Contingency?	Substantial Completion Date Impact?	Notes
102	13-2Q-2: Steam Generator - Contractor Acceptance of Equipment at Port of Entry - Unit 2	13-1Q 3/31/2013	13-1Q 1/31/2013		-2 Month(s)	No	No	Schedule ahead of plan.
103	13-2Q-3: Turbine Generator Fabricator Notice to Contractor Turbine Generator Ready to Ship - Unit 2	13-2Q 4/30/2013	13-1Q 3/31/2013		-1 Month(s)	No	No	Schedule ahead of plan.
104	13-2Q-4: Pressurizer Fabricator Notice to Contractor of Satisfactory Completion of Hydrotest - Unit 3	14-1Q 2/28/2014	13-3Q 9/30/2013		-5 Month(s)	No	No	Schedule ahead of plan.
105	13-2Q-5: Polar Crane - Shipment of Equipment to Site - Unit 2	13-2Q 5/31/2013	13-4Q 11/30/2013		+6 Month(s)	No	No	Due to schedule re-work and status.
106	13-2Q-6: Receive Unit 2 Reactor Vessel on site from fabricator	13-2Q 5/20/2013	13-4Q 11/21/2013		+6 Month(s)	No	No	Due to schedule re-work and status.
107	13-3Q-1: Set Unit 2 Reactor Vessel	13-2Q 6/18/2013	13-4Q 12/19/2013		+6 Month(s)	No	No	Due to schedule re-work and status.
108	13-3Q-2: Steam Generator Fabricator Notice to Contractor of Completion of 2nd Channel Head to Tubesheet Assembly Welding - Unit 3	13-4Q 12/31/2013	13-4Q 11/30/2013		-1 Month(s)	No	No	Schedule ahead of plan.
109	13-3Q-3: Reactor Coolant Pump Fabricator Notice to Contractor of Final Stator Assembly Completion - Unit 3	14-3Q 8/31/2014	14-2Q 4/30/2014		-4 Month(s)	No	No	Schedule ahead of plan.
110	13-3Q-4: Reactor Coolant Pump - Shipment of Equipment to Site (2 Reactor Coolant Pumps) - Unit 2	13-3Q 9/30/2013	13-3Q 8/31/2013		-1 Month(s)	No	No	Schedule ahead of plan.
111	13-3Q-5: Place first nuclear concrete for Unit 3	13-3Q 8/1/2013	13-3Q 8/2/2013			No	No	Due to schedule refinement.
112	13-4Q-1: Set Unit 2 Steam Generator	13-3Q 9/9/2013	14-1Q 3/24/2014		+6 Month(s)	No	No	Due to schedule re-work and status.
113	13-4Q-2: Main Transformers Ready to Ship - Unit 2	13-3Q 9/30/2013	13-2Q 6/30/2013		-3 Month(s)	No	No	Schedule ahead of plan.

Color Legend

 = Completed

 = Completed this Quarter

 = Movement in Days Only

11-1Q

**Appendix 1**  
**VC Summer Units 2 and 3**

Tracking ID	Order No. 2010-12 Description	Order No. 2010-12 Date	11-1Q Targeted Milestone Completion Date	Actual Completion Date	Delta Months from Order No. 2010-12 Date	Outside +18/-24 Months Contingency?	Substantial Completion Date Impact?	Notes
114	13-4Q-3: Complete Unit 3 Steam Generator Hydrotest at fabricator	14-1Q 2/28/2014	14-1Q 3/31/2014		+1 Month(s)	No	No	Due to schedule re-work and status.
115	13-4Q-4: Set Unit 2 Containment Vessel Bottom Head on basemat legs	11-4Q 11/21/2011	12-1Q 3/29/2012		+4 Month(s)	No	No	Due to schedule re-work and status.
116	14-1Q-1: Set Unit 2 Pressurizer Vessel	14-1Q 1/24/2014	14-3Q 8/5/2014		+7 Month(s)	No	No	Due to schedule re-work and status.
117	14-1Q-2: Reactor Coolant Pump Fabricator Notice to Contractor of Satisfactory Completion of Factory Acceptance Test - Unit 3	15-1Q 2/28/2015	15-1Q 3/31/2015		+1 Month(s)	No	No	Due to schedule re-work and status.
118	14-1Q-3: Deliver Reactor Vessel Internals to Port of Export - Unit 3	15-2Q 6/30/2015	15-3Q 9/30/2015		+3 Month(s)	No	No	Due to schedule re-work and status.
119	14-1Q-4: Main Transformers Fabricator Issue PO for Material - Unit 3	14-2Q 4/30/2014	14-2Q 4/30/2014			No	No	
120	14-2Q-1: Complete welding of Unit 2 Passive Residual Heat Removal System piping	14-1Q 3/19/2014	14-3Q 9/30/2014		+6 Month(s)	No	No	Due to schedule re-work and status.
121	14-2Q-2: Steam Generator - Contractor Acceptance of Equipment at Port of Entry - Unit 3	15-2Q 4/30/2015	15-1Q 2/28/2015		-2 Month(s)	No	No	Schedule ahead of plan.
122	14-2Q-3: Refueling Machine - Shipment of Equipment to Site - Unit 3	14-2Q 5/31/2014	14-2Q 5/31/2014			No	No	
123	14-3Q-1: Set Unit 2 Polar Crane	14-2Q 4/3/2014	14-3Q 9/24/2014		+5 Month(s)	No	No	Due to schedule re-work and status.
124	14-3Q-2: Reactor Coolant Pumps - Shipment of Equipment to Site - Unit 3	15-2Q 6/30/2015	15-3Q 8/31/2015		+2 Month(s)	No	No	Due to schedule re-work and status.
125	14-3Q-3: Main Transformers Ready to Ship - Unit 3	14-3Q 9/30/2014	15-1Q 1/31/2015		+4 Month(s)	No	No	Due to schedule re-work and status.
126	14-4Q-1: Spent Fuel Storage Rack - Shipment of Last Rack Module - Unit 3	14-4Q 12/31/2014	14-2Q 6/30/2014		-6 Month(s)	No	No	Schedule ahead of plan.
127	15-1Q-1: Start electrical cable pulling in Unit 2 Auxillary Building	14-4Q 12/26/2014	15-3Q 7/13/2015		+7 Month(s)	No	No	Due to schedule re-work and status.

Color Legend



O Obligated



O Completed this quarter



O Movement in Days Only




11-1Q

**Appendix 1**  
**VC Summer Units 2 and 3**

Tracking ID	Order No. 2010-12 Description	Order No. 2010-12 Date	11-1Q Targeted Milestone Completion Date	Actual Completion Date	Delta Months from Order No. 2010-12 Date	Outside +18/-24 Months Contingency?	Substantial Completion Date Impact?	Notes
128	15-1Q-2: Complete Unit 2 Reactor Coolant System cold hydro	15-3Q 8/3/2015	15-3Q 9/1/2015		+1 Month(s)	No	No	Due to schedule refinement and review.
129	15-2Q-1: Activate class 1E DC power in Unit 2 Auxiliary Building.	15-1Q 3/5/2015	14-4Q 12/5/2014		-3 Month(s)	No	No	Schedule ahead of plan.
130	15-3Q-1: Complete Unit 2 hot functional test.	15-3Q 9/21/2015	15-4Q 12/15/2015		+3 Month(s)	No	No	Due to schedule refinement and review.
131	15-3Q-2: Install Unit 3 ring 3 for containment vessel	15-3Q 7/30/2015	15-2Q 4/15/2015		-3 Month(s)	No	No	Schedule ahead of plan.
132	15-4Q-1: Load Unit 2 nuclear fuel	15-4Q 10/28/2015	16-1Q 3/8/2016		+5 Month(s)	No	No	Due to schedule refinement and review.
133	16-1Q-1: Unit 2 Substantial Completion	16-2Q 4/1/2016	16-2Q 4/1/2016			No	No	
134	16-2Q-1: Set Unit 3 Reactor Vessel	15-4Q 10/1/2015	15-2Q 6/16/2015		-4 Month(s)	No	No	Schedule ahead of plan.
135	16-3Q-1: Set Unit 3 Steam Generator #2	15-4Q 12/22/2015	15-4Q 10/16/2015		-2 Month(s)	No	No	Schedule ahead of plan.
136	16-4Q-1: Set Unit 3 Pressurizer Vessel	16-2Q 5/16/2016	16-1Q 3/9/2016		-2 Month(s)	No	No	Schedule ahead of plan.
137	16-4Q-1: Complete welding of Unit 3 Passive Residual Heat Removal System piping	16-2Q 6/20/2016	16-2Q 5/3/2016		-1 Month(s)	No	No	Schedule ahead of plan.
138	17-2Q-1: Set Unit 3 polar crane	16-3Q 7/18/2016	16-2Q 4/27/2016		-3 Month(s)	No	No	Schedule ahead of plan.
139	17-3Q-1: Start Unit 3 Shield Building roof slab rebar placement	17-1Q 1/16/2017	16-4Q 10/13/2016		-3 Month(s)	No	No	Schedule ahead of plan.
140	17-4Q-1: Start Unit 3 Auxiliary Building electrical cable pulling	17-2Q 4/6/2017	17-1Q 2/8/2017		-2 Month(s)	No	No	Schedule ahead of plan.
141	18-1Q-1: Activate Unit 3 Auxiliary Building class 1E DC power	17-2Q 6/9/2017	16-3Q 7/1/2016		-11 Month(s)	No	No	Schedule ahead of plan.
142	18-2Q-1: Complete Unit 3 Reactor Coolant System cold hydro	18-1Q 1/1/2018	17-4Q 11/17/2017		-2 Month(s)	No	No	Schedule ahead of plan.

Color Legend

 = Completed = Completed this Quarter = Minor Delays Only




11-1Q

**Appendix 1**  
**VC Summer Units 2 and 3**

Tracking ID	Order No. 2010-12 Description	Order No. 2010-12 Date	11-1Q Targeted Milestone Completion Date	Actual Completion Date	Delta Months from Order No. 2010-12 Date	Outside +18/-24 Months Contingency?	Substantial Completion Date Impact?	Notes
143	18-2Q-1: Complete Unit 3 hot functional test	18-1Q 2/15/2018	18-1Q 3/8/2018		+1 Month(s)	No	No	Due to schedule refinement and review.
144	18-3Q-1: Complete Unit 3 nuclear fuel load	18-3Q 7/31/2018	18-3Q 7/12/2018			No	No	Due to schedule refinement.
145	18-4Q-1: Begin Unit 3 full power operation	18-4Q 10/31/2018	18-4Q 11/15/2018		+1 Month(s)	No	No	Due to schedule refinement and review.
146	19-1Q-1: Unit 3 Substantial Completion	19-1Q 1/1/2019	19-1Q 1/1/2019			No	No	
<p align="center"><b>SUMMARY</b></p> <p align="center">Total Milestones Completed    59       out of       146 =    40%</p> <p align="center">Milestone Movement - Order No. 2010-12 vs. 11-1Q:</p> <p align="center">a) Forward Movement    42       out of       146 =    29%</p> <p align="center">b) Backward Movement    29       out of       146 =    20%</p> <p align="center">Milestones Within +12 to +17 Month range    1       out of       146 =    1%</p>								

Color Legend

 = Completed

 = Completed this Quarter

 = Movement in Days Only

## **APPENDIX 2**

### **V. C. Summer Nuclear Station Units 2 & 3**

**Quarterly Report to the South Carolina Office of Regulatory Staff  
Submitted by South Carolina Electric & Gas Company  
Pursuant to Public Service Commission Order No. 2009-104(A)**

#### **Quarter Ending March 31, 2011**

**Appendix 2, Chart A** is an updated and expanded version of the information contained in the capital cost schedule approved by the Commission in Order No. 2011-345.

**Appendix 2, Chart A** shows:

1. The actual expenditures on the project by plant cost category through the current period.
2. The changes in capital costs reflecting the Company's current forecast of expenditures on the project for each future period by plant cost category. In updating its cost projections the Company has used the current construction schedule for the project and the Commission-approved inflation indices as set forth in **Appendix 4** to this report.
3. The cumulative Construction Work in Progress for the project and the balance of Construction Work in Progress that is not yet reflected in revised rates.
4. The current rate for calculating AFUDC computed as required under applicable FERC regulations.

The Cumulative Project Cash Flow target as approved in Order No. 2011-345 and as updated for escalation and other Commission-approved adjustments is found under the heading "**Per Order 2011-345 Adjusted.**" The adjustments reflect:

1. Changes in inflation indices.
2. Budget Carry-forward Adjustments used, where appropriate to track the effect of lower-than-expected cumulative costs on the future cumulative cash flow of the project.

**Chart A** of **Appendix 2** also shows the cumulative cash flow for the project based on actual expenditures to date and the current construction schedule and forecast of year-by-year cost and going forward. This information is found under the heading "**Actual through March 2011, plus Projected.**"

**Chart B** of **Appendix 2** provides a comparison of the adjusted Cumulative Project Cash Flow target for the project with the actual and forecasted cash flow for the project.



## Appendix 2, Chart A

Public Version

**RESTATED and UPDATED CONSTRUCTION EXPENDITURES**

(Thousands of \$)

**V.C. Summer Units 2 and 3 - Summary of SCE&G Capital Cost Components**

<b>Per Order 2011-345 Adjusted</b>	<b>Total</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
Annual Project Cash Flow(per order)	5,531,259	21,723	100,905	340,003	398,552	497,994	856,993	871,748	664,760	627,604	494,501	304,676	351,800
Capital Cost Rescheduling Contingency	-	-	-	-	-	-	-	-	-	-	-	-	-
Budget Carry-Forward Adjustment	-	-	-	-	-	-	-	-	-	-	-	-	-
Net	5,531,259	21,723	100,905	340,003	398,552	497,994	856,993	871,748	664,760	627,604	494,501	304,676	351,800
Adjusted for Change in Escalation	5,369,501	21,723	100,905	340,003	398,552	483,304	831,389	851,185	645,654	607,073	472,046	289,168	328,500
Cumulative Project Cash Flow(Target)		21,723	122,628	462,631	861,183	1,344,487	2,175,876	3,027,060	3,672,714	4,279,787	4,751,833	5,041,001	5,369,501
<b>Actual through March 2011* plus Projected</b>													
Plant Cost Categories	Total	Actual					Projected						
		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Fixed with No Adjustment													
Firm with Fixed Adjustment A													
Firm with Fixed Adjustment B													
Firm with Indexed Adjustment													
Actual Craft Wages													
Non-Labor Costs													
Time & Materials													
Owners Costs													
Transmission Costs	321,591	-	26	724	927	7,209	7,775	12,095	29,822	35,236	43,035	73,678	111,064
Total Base Project Costs(2007 \$)	4,270,301	21,723	97,386	319,073	374,810	422,345	707,449	680,962	475,112	441,039	326,482	192,952	210,966
Total Project Escalation	1,106,719	-	3,519	20,930	23,741	40,611	139,022	185,911	160,246	169,097	149,945	95,902	117,796
<b>Total Revised Project Cash Flow</b>	<b>5,377,020</b>	<b>21,723</b>	<b>100,905</b>	<b>340,003</b>	<b>398,552</b>	<b>462,956</b>	<b>846,471</b>	<b>866,872</b>	<b>635,358</b>	<b>610,137</b>	<b>476,427</b>	<b>288,854</b>	<b>328,762</b>
Cumulative Project Cash Flow(Revised)		21,723	122,629	462,632	861,183	1,324,139	2,170,610	3,037,482	3,672,840	4,282,977	4,759,404	5,048,258	5,377,020
AFUDC(Capitalized Interest)	246,515	645	3,497	10,564	17,150	20,320	30,788	43,465	36,834	29,867	20,715	16,350	16,320
<b>Gross Construction</b>	<b>5,623,535</b>	<b>22,368</b>	<b>104,403</b>	<b>350,567</b>	<b>415,701</b>	<b>483,275</b>	<b>877,259</b>	<b>910,337</b>	<b>672,192</b>	<b>640,004</b>	<b>497,143</b>	<b>305,205</b>	<b>345,082</b>
<b>Construction Work in Progress</b>		<b>22,368</b>	<b>126,771</b>	<b>477,338</b>	<b>893,039</b>	<b>1,376,314</b>	<b>2,253,573</b>	<b>3,163,910</b>	<b>3,836,102</b>	<b>4,476,106</b>	<b>4,973,248</b>	<b>5,278,453</b>	<b>5,623,535</b>
CWIP Currently in Rates						663,471							
March 31, 2011 Actual Incremental CWIP Not Currently in Rates						343,802							

\*Applicable Index escalation rates for 2011 are estimated. Escalation is subject to restatement when actual indices for 2011 are final.

## Notes:

2011-2018 AFUDC rate applied

5.81%

The AFUDC rate applied is the current SCE&amp;G rate. AFUDC rates can vary with changes in market interest rates, SCE&amp;G's embedded cost of capital, capitalization ratios, construction work in process, and SCE&amp;G's short-term debt outstanding.

## Appendix 2, Chart B

Public Version

**RESTATED and UPDATED CONSTRUCTION EXPENDITURES**

(Thousands of \$)

**V.C. Summer Units 2 and 3 - Summary of SCE&G Capital Cost Components**

	<u>Total</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>
Annual Project Cash Flow(per order)	5,904,403	21,723	100,905	348,513	452,925	542,833	816,348	880,021	752,028	673,979	543,181	360,968	410,979
Capital Cost Rescheduling Contingency	-	-	-	-	-	-	-	-	-	-	-	-	-
Net	5,904,403	21,723	100,905	348,513	452,925	542,833	816,348	880,021	752,028	673,979	543,181	360,968	410,979
<b>Project Cash Flow Target</b>	<b>5,369,501</b>	<b>21,723</b>	<b>100,905</b>	<b>340,003</b>	<b>398,552</b>	<b>483,304</b>	<b>831,389</b>	<b>851,185</b>	<b>645,654</b>	<b>607,073</b>	<b>472,046</b>	<b>289,168</b>	<b>328,500</b>
<b>Total Revised Project Cash Flow</b>	<b>5,377,020</b>	<b>21,723</b>	<b>100,905</b>	<b>340,003</b>	<b>398,551</b>	<b>462,956</b>	<b>846,471</b>	<b>866,872</b>	<b>635,358</b>	<b>610,137</b>	<b>476,427</b>	<b>288,854</b>	<b>328,762</b>
<b>Comparison of Revised Cash Flow to Target</b>													
Year over Year Change	7,519	-	0	0	(1)	(20,348)	15,082	15,687	(10,296)	3,064	4,382	(314)	262
Cumulative Revised Project Cash Flow		21,723	122,628	462,632	861,183	1,324,138	2,170,609	3,037,481	3,672,840	4,282,976	4,759,404	5,048,258	5,377,020
Cumulative Project Cash Flow(Target)		21,723	122,628	462,631	861,183	1,344,487	2,175,876	3,027,060	3,672,714	4,279,787	4,751,833	5,041,001	5,369,501
Timing Adj.on EPC Billing Methodology		-	-	-	-	(1,384)	-	-	-	-	-	-	-
Adjusted Cumulative target		21,723	122,628	462,631	861,183	1,343,103	2,174,491	3,025,676	3,671,330	4,278,403	4,750,449	5,039,617	5,368,116
Over/(Under)		-	0	1	(0)	(18,964)	(3,882)	11,805	1,510	4,573	8,955	8,641	8,903

**APPENDIX 3**

**V. C. Summer Nuclear Station Units 2 & 3**

**Quarterly Report to the South Carolina Office of Regulatory Staff  
Submitted by South Carolina Electric & Gas Company  
Pursuant to Public Service Commission Order No. 2009-104(A)**

**Quarter Ending March 31, 2011**

For comparison purposes, **Appendix 3** provides the schedule of capital costs for the project which was approved by the Commission in Order No. 2011-345 as the Approved Capital Cost of the Units, pursuant to S.C. Code Ann. § 58-33-270(B)(2). **Appendix 3** also reflects the forecast of AFUDC expense based on these adjusted schedules and the AFUDC rates that were current at the time of Order No. 2011-345. **Appendix 3** is intended to provide a fixed point of reference for future revisions and updating. While the schedule of costs contained on **Appendix 3** is subject to revision for escalation, changes in AFUDC rates and amounts, capital cost scheduling contingencies and other contingency adjustments as authorized in Order No. 2009-104(A), no such adjustments have been made to the schedules presented here.



**RESTATED and UPDATED CONSTRUCTION EXPENDITURES**

(Thousands of \$)

**V.C. Summer Units 2 and 3 - Summary of SCE&G Capital Cost Components**

Per Order 2011-345

	<u>Total</u>	<u>2007</u>	<u>2008</u>	<u>Actual</u> <u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>Projected</u> <u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>
Plant Cost Categories													
Fixed with No Adjustment													
Firm with Fixed Adjustment A													
Firm with Fixed Adjustment B													
Firm with Indexed Adjustment													
Actual Craft Wages													
Non-Labor Costs													
Time & Materials													
Owners Costs													
Transmission Costs	321,591	-	26	724	884	7,252	7,775	12,095	29,822	35,236	43,035	73,678	111,064
Total Base Project Costs(2007 \$)	4,270,404	21,723	97,386	319,073	377,225	440,602	696,093	669,056	483,136	438,767	323,231	193,183	210,926
Total Project Escalation	1,260,855	-	3,519	20,930	21,327	57,391	160,900	202,693	181,623	188,837	171,270	111,492	140,874
<b>Total Revised Project Cash Flow</b>	<b>5,531,259</b>	<b>21,723</b>	<b>100,905</b>	<b>340,003</b>	<b>398,552</b>	<b>497,994</b>	<b>856,993</b>	<b>871,748</b>	<b>664,760</b>	<b>627,604</b>	<b>494,501</b>	<b>304,676</b>	<b>351,800</b>
<b>Cumulative Project Cash Flow(Revised)</b>		21,723	122,629	462,632	861,184	1,359,178	2,216,171	3,087,919	3,752,678	4,380,283	4,874,784	5,179,460	5,531,259
<b>AFUDC(Capitalized Interest)</b>	255,684	645	3,497	10,564	17,150	24,188	32,098	42,559	37,585	30,731	21,543	17,561	17,564
<b>Construction Work in Progress</b>		22,368	126,771	477,338	893,040	1,415,221	2,304,312	3,218,618	3,920,963	4,579,298	5,095,342	5,417,579	5,786,943

CONFIDENTIAL

**APPENDIX 4**

**V. C. Summer Nuclear Station Units 2 & 3**

**Quarterly Report to the South Carolina Office of Regulatory Staff  
Submitted by South Carolina Electric & Gas Company  
Pursuant to Public Service Commission Order No. 2009-104(A)**

**Quarter Ending March 31, 2011**

**Appendix 4** shows the changes in the inflation indices approved in Order No. 2009-104(A). Included is a ten year history of the Handy Whitman All Steam Index, South Atlantic Region; the Handy Whitman All Steam and Nuclear Index, South Atlantic Region; Handy Whitman All Transmission Plant Index, South Atlantic Region; and the Chained GDP Index. The change in the relevant indices from the Combined Application is also provided.

## Appendix 4, Chart A

### Inflation Indices, Chart A

HW All Steam Generation Plant Index, January 2011

<u>Year</u>	<u>Index</u>	<u>Yr/Yr change</u>	<u>Three Year Average</u>	<u>Five Year Average</u>	<u>Ten Year Average</u>
2011	554	3.36%	2.30%	4.73%	4.45%
2010	536	-1.29%	3.89%	5.21%	
2009	543	4.83%	7.19%	7.19%	
2008	518	8.14%	7.50%	6.65%	
2007	479	8.62%	7.66%	5.51%	
2006	441	5.76%	5.49%	4.17%	
2005	417	8.59%	4.39%	3.42%	
2004	384	2.13%	2.17%		
2003	376	2.45%	2.13%		
2002	367	1.94%			
2001	360	1.98%			
2000	353				

#### HW All Steam Index:

One year  
Five Year

<b>BLRA Filing <u>Jul-07</u></b>	<b>Order 2010-12 <u>Jan-09</u></b>	<b>Order 2011-345 <u>Jul-10</u></b>	<b>Update <u>Jan-11</u></b>
7.68%	4.83%	4.79%	3.36%
5.74%	7.19%	5.31%	4.73%



## Appendix 4, Chart B

### Inflation Indices, Chart B

HW All Steam and Nuclear Generation Plant Index, January 2011

<u>Year</u>	<u>Index</u>	<u>Yr/Yr change</u>	<u>Three Year Average</u>	<u>Five Year Average</u>	<u>Ten Year Average</u>
2011	553	3.17%	2.30%	4.74%	4.46%
2010	536	-1.11%	3.89%	5.26%	
2009	542	4.84%	7.21%	7.20%	
2008	517	7.93%	7.52%	6.66%	
2007	479	8.86%	7.75%	5.57%	
2006	440	5.77%	5.51%	4.19%	
2005	416	8.62%	4.40%	3.43%	
2004	383	2.13%	2.18%		
2003	375	2.46%	2.13%		
2002	366	1.95%			
2001	359	1.99%			
2000	352				

#### HW All Steam/Nuclear Index:

One year  
Five Year

<b>BLRA Filing <u>Jul-07</u></b>	<b>Order 2010-12 <u>Jan-09</u></b>	<b>Order 2011-345 <u>Jul-10</u></b>	<b>Update <u>Jan-11</u></b>
<b>7.69%</b>	<b>4.84%</b>	<b>4.60%</b>	<b>3.17%</b>
<b>5.75%</b>	<b>7.20%</b>	<b>5.32%</b>	<b>4.74%</b>

## Appendix 4, Chart C

### Inflation Indices, Chart C

HW All Transmission Plant Index, January 2011

<u>Year</u>	<u>Index</u>	<u>Yr/Yr change</u>	<u>Three Year Average</u>	<u>Five Year Average</u>	<u>Ten Year Average</u>
2011	564	1.44%	1.57%	4.33%	4.55%
2010	556	-4.14%	3.68%	5.74%	
2009	580	7.41%	8.11%	8.60%	
2008	540	7.78%	8.48%	7.71%	
2007	501	9.15%	9.27%	6.10%	
2006	459	8.51%	7.21%	4.76%	
2005	423	10.16%	4.28%	3.51%	
2004	384	2.95%	1.72%		
2003	373	-0.27%	1.48%		
2002	374	2.47%			
2001	365	2.24%			
2000	357				

<u>HW All Transmission Plant Index</u>	<b>BLRA</b> <u>Filing</u> <u>Jul-07</u>	<u>Order 2010-12</u> <u>Jan-09</u>	<u>Order 2011-345</u> <u>Jul-10</u>	<u>Update</u> <u>Jan-11</u>
One year	8.82%	7.41%	5.08%	1.44%
Five Year	6.86%	8.60%	5.23%	4.33%

## Appendix 4

## Inflation Indices, Chart D

GDP Chained Price Index, 2011

SERIESTYPE	UNIT	SHORT LABEL					2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
<b>Chained Price Index--Gross Domestic Product</b>																	
U.S. Macro - 10 Year Baseline	(2005=100)	Chained price index-gross domestic product , Source: BEA , Units: index- 2005=100.0															
Annual Percent change							88.65	90.65	92.11	94.10	96.77	100.00	103.26	106.30	108.60	109.62	110.67
3-Year Annual Percent change							2.17%	2.26%	1.61%	2.16%	2.84%	3.34%	3.26%	<b>2.94%</b>	<b>2.16%</b>	<b>0.94%</b>	<b>0.96%</b>
5-Year Annual Percent change									2.01%	2.01%	2.20%	2.78%	3.14%	3.18%	2.79%	2.01%	1.35%
10-Year Annual Percent change											<b>2.21%</b>	<b>2.44%</b>	<b>2.64%</b>	<b>2.91%</b>	<b>2.91%</b>	<b>2.53%</b>	<b>2.05%</b>
<b>Consumer Price Index, All-Urban</b>																	
U.S. Macro - 10 Year Baseline	Index	Consumer price index, all-urban , Source: BLS , Units: - 1982-84=1.00															
Percent change							1.72	1.77	1.80	1.84	1.89	1.95	2.02	2.07	2.15	2.15	2.18
3-Year Annual Percent change							3.37%	2.82%	1.60%	2.30%	2.67%	3.37%	3.23%	2.86%	3.69%	0.00%	1.40%
5-Year Annual Percent change									2.59%	2.24%	2.19%	2.78%	3.09%	3.15%	3.26%	2.17%	1.68%
10-Year Annual Percent change											2.55%	2.55%	2.63%	2.88%	3.16%	2.62%	2.23%
<b>Producer Price Index--Finished Goods</b>																	
U.S. Macro - 10 Year Baseline	(1982=1.0)	Producer price index-finished goods , Source: BLS , Units: index- 1982=1.0															
Percent change							1.38	1.41	1.39	1.43	1.49	1.56	1.60	1.67	1.77	1.73	1.80
3-Year Annual Percent change							3.76%	1.94%	-1.30%	3.18%	3.98%	4.70%	2.56%	4.38%	5.99%	-2.26%	4.05%
5-Year Annual Percent change									1.44%	1.26%	1.93%	3.95%	3.74%	3.87%	4.30%	2.64%	2.53%
10-Year Annual Percent change											2.29%	2.48%	2.60%	3.76%	4.31%	3.03%	2.90%
																	2.69%

## GDP Chained Price Index

One year  
Five Year

BLRA Filing Jul-07
2.66%
2.81%

Order 2010-12  
Jan-09Order 2011-345  
Jul-10Update  
Jan-11

2.24%

0.43%

0.96%

2.86%

1.97%

2.05%